## ABSTRACT OF THE DISCLOSURE

Systems, apparatus and methods that allow external infusion, IV or administration pumps to be synchronized with the internal pumps for a medical fluid therapy machine are provided. The system reduces the time and effort needed to calculate, set-up, enter and maintain flowrates of various fluids, maintained internally or externally with respect to the medical fluid therapy machine. The system also automatically follows therapy requirements, for example, a requirement that one pump/fluid be running/flowing for another pump/fluid to be enabled to run/flow. The system further automatically adjusts for variations in flowrate of one fluid with respect to another. In short, the system provides a more "hands-off", safe and effective method and apparatus for medical fluid therapy fluid delivery.